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MNEWS

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started an intergalectic war, with its
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CITADEL

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FEATURE

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Andrew Brown, the man around town, goes to PCs.

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PROGRAMMING

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Make sure your VAT involce is a hone invoice with this simple checking program

you worred that the plumber's bell. Well werry no more! With the sail

really does go go the Tenzons' Are consent nacket, pay not be exequed

Thirty Seven

PROGRAMMING

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The checking routes returns the

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240 IFHIOS(US, A, 1) < "O"ORHIOS

YOUR COMMODORE

MOVING THE SCREEN

hy Fwan Villiere

UFO's and, probably the pre-

Moving the test screen has more

Bunk (CIA)

THE CLA BANK

The first three to note about this is

Changing the character addrass (line 400)

Changing the Screen

Fore 150-2300

While this is not difficult, it is the

The Mechine code program

SPECIAL

roduce those colour ides with this simple to use program

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III and which is disappears, a ladeest. FADE THEORY GUADRAM I









CS4 PROGRAMMING L'OREY

to do to least FADER MC and then

TO STREET TO PROPERTY OF THE STREET OF THE S

TAPETRIBES WILL BAVE TO ALTER ALL THE JU to Ja.

Strung Along

Understand the use of strings with this clear, concise explanation

Rv E Dumbill

It is common hereleight that CRMM Date, in the from may so use in the host of the may be perfectly the perfect of the man made perfect of the matter of the man perfect of the matter of the perfect of the matter of the mat

Figure 1 ASPARCT

the result we

rigare 2 SP ABC

Law SEAS 201106.

As you can see, the composer will be you see what a there, but yo for what a three, but yo for permitted to change it. Mure, other forms of Feast do allow that far Wookfalls is in see 67, pat 60s using DEF PV in a rathermore, we could mention to allow to its after rating? But, you have guissed it, Cold field after it. It through that then wen proceedings it is any the law of produced a manner of another to the see proceedings.

LEFTS

The Manton less you take the leftment characters from a strong. The **LEFTS (strongs stemants) where rieswess to the amount of characterists extract. This womber can obviously not be greater than the matters in the string.

C84 PROGRAMMING

The feature alone per in take character from the MCDLe of wine ments at the character that you spould. It is very more framework to his ment exploration. For exemple, recording through a most you for a character (perhapse, 1). The synchron is MDD company, have a cleaned who men on the start character and relevant to the absolute of relaxation perhapse. It was a 12 MDLE. Report Johnson or more prompting.

Esper 3

AS-"ABCDE" PRINT MIDS(AS,2,5) the rough would be DCT

When you show how to use the train therefore, we can use these because the same was table to be for a state of the same and the same an

But, we do not know how many characters to change in the LIPTS, and consequently, how many RIGHTS observation (represented by m) to put on the red of the aboved integer to make n compare. For this, we made to consecute transfer transfer LIPT has return the resident of characters in a straig, where m is the resident of characters in a straig, where m is the resident of characters in a straig.

would result in 5

(STEANOS) mayor N. We comput this into our program issue LEFTS augory attente STRINGS-NEW SITS-RIGHTS (OLD STRINGS,N).

But it is a pain to have our took the NEW HTS, so we observed, and the strings of finest PERS of the NEW HTS.

ALTERED STRINGS-NEW BITS-RIGHTS (OLD STRINGS (LEN (OLD STRINGS) LEN (NEW BITS)

Completed on tell Na, not really! Here is a breakdown of the up), looking RIGHTS fraction I used. What is does in to take the original using, and

MENTAL DISTRICT

C64 PROGRAMMING

AT SAT ON THE ME

treated.

The subcontant for a surgical BEGHTS is obviously going to be much the mark, but we must exchange the BOGHTS on the contant for a LEFTS as as well the LEFTS was not all the LEFTS where misself.

Here in the nature for a surgical BUGHTS.

HOLE-LEFTRUKLENER LENINGEN

The use of the rootee is much the name as the oer above. Here samples say Boeis (stilled cap') Well, yet if does but then we decoupt a samples block to the lines of MBOS. However, such a bit of logical thought we so overcome it.

of LEFTS MIDS and RIGHTS Therefore, we now get

ALTERED STRINGS-LEFTS OLDS X)-NEW BITS-BROBES OLDS XO.

As note MIDS, we can't get away with 2 personners, NS and LS but we need a third S, which is the character as which the NEWS will start being charmed.

From that N, we can calculate all the information that we way need.

rumber of characters in LEFTE/S rumber of characters in RIGHTS-LEN(LS). S. LEN(NS) so the progress for MIDS respecy from take that

LS LEFTRIASPAS-BLOBTS(LS), LINGLS) S LEN (NE 100 RETURN

in the second section of the second section section

BASIC PART

Add an euto line numbering facility t your collection of

the now of Stare in the ROM after a bee has be ines or before a new has is started off —whichever w For this let me slab-acter on how Commodern Base

By Burghard-Henry Ba

Basic Warm Start

The whole process starts at \$A400, the so called Some Horse Sart received.

Cemended MAPA SHIPPORT, Class is, seemed a perspective strainer of the Conference of the Markov in the London with the World of E. Debre a seemed account of the Markov in the Conference with the Markov in the Conference of the Conferenc

When you reter a Base woulde, the our thing which is fairly repular in the bas sambles. Since computes we very good as during repular, monotonics tasks is makes made to be the computer of the land prophering. All you have to do then in warry about draspade your program!

the user gresses that moore key (ASCII 18). This flathes that loop and terms the characters in the negret build what man.

New the componer folds out, of the law ensured has a law model from all a core of it is hashed by a face unother, the "historism", and called, in refereprised and executed monelineths is a direct command. If the law strates when he is assume that have continued. If the law is always to be a support to the control of the law is of the law and then the law and the law is a disputed to the law and the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the tree of the law is always to come to the law is always to come the law i

If a line with that like number contralenely, the old has it deleted. Finally, the new line is executed sets the worlds. If the line has neglicing after the last number, neglicing is posited use the

The overall exchange of auto hor numberous is as follows. The current

Now the computer enters the small long or ROM, which I have explained

Then the computer practice through the textile to see if a long with this

Well, as I have already pound out, it would be perty annexes if we

you can't give a direct command. Furthermore, the vectors at \$0000 to \$8332.

are not changed back to normal, even when you even the run/stop protoco

CR4 PROGRAMMING

In this case our coaline yawys to the aptly colled rosene NOTHING, which

to section in 1 per course non-

YOUR COMMODORE

PROGLOK

Stop prying eyes and itchy tingers with this handy program

Zak Beck

This pragram enables years being the property of the computer to that, say, the key issued spoil all your hard on the computer to that, say, the key issued spoil all your hard only allow allowing your computer, it allows allowing your computer, in the computer of the co

How it all works

The progress or swyden to conclusion of Octomary, if it mass verying to Brace, it would not be compatible with your management. It condens to the applications or extraption on the applications or extraption and the Brace of the applications or extraption and the Brace of the applications or extraption and the Brace of the applications of the ap

I' The program first disactivate most key, press up 12 told; sem prompts. It does their me made and call added 1982/MAC 1988/pp. That works as follows:

7581 promes by "Memograpous base"(8

red of program fallow Having salled P\$13 pite will prem out outgraing that follow cand in consensors a V byte. The si jumps back to your sulprem. The si jumps back to your sulprem. The world mempe-prime render at 6485, 8FPD.

Frields, howing peased as falled of the control of 6485, 8FPD.

Frields, howing peased as falled of the control of the single-sensor of the control of the single-sensor during the control of the c

compated has been locked, as so that is the has to enter a O or passwared. Using "golded", as a in cassast limited has did not the constens of builder had the constens of builder. So with the passwared panel the representation of the contraction of the contraction of the contraction of the contraction of the conpated by the concompated reviews to the fangual BASSC;

Using the Program

Type in the program (see getting at all in) Nati time the following

This will netable fancous key I to read "SYSHOP" + she's (II) as the concreted "KSY" + she's (II) as the concreted "KSY" will show Priving III to direct mode wall sell sig the programs assenting a seal to address 4811. Yes can now come you's laryword, using any of the keys on the keybood, sen'outgo that Paul sed those on the keybood as the region of the IISA I find not changes.

yeer keyword, using any of the keys on the keyboard, meridding Late Food and there on the keypol as the right of the 128. I feel for characters provide a fainty sensor code, who waste their computer to be Foot And their follows:

element by typing, in your look white What you eleme to want to see the mechan again, pure any key and sy will even a necessity that you have your code. Bearing the right code will feller you man facility, evening the money can you have proposed to the green say they arran again. Should you ferget the code, there is a serial lated rock a make you

2. Hold down the RUN/STOP key.

3. Posts in the reset britise while holders RUN/STOP.

3. When the competer powers up you will be to the monator Ruless RUN/STOP how

4. Type; X and press notice

5. You will be back in BASIC Typers, LIST and pressed greats.

Getting it in

The Besic loader is easy to use. Just open rid list very contribity, and saw it for long or other Than rise it. If you can rise it is specifically easily as a metable. TTYPING REPORT of appear. If reveryibing is also judy, you can see the code using the following IRASIC list.

IRASIC NO. IRASIC LIST. PRESENTED IRASIC LIST.

IRASIC LIST. PRESE

you want to see the p I teme, too-"(Siename)"

Forty Nine



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C64 PROGRAMMING

THE USER PORT

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The Sy and Created (OND) loser com extends by usual to opener supplies. Explore the possibilities of this versatile user

By R. Smedley

theory

"gill which are invalidable for the mic of the indovidual. However, 20 extends on an about the count be set to a dark capet one register (40%), and are no one power up). Lockley, the Commodore specialising system notice the summariant pumple process. As forestends 5557 where is a bit for each lone in a lane to square makes the forestends analyse process. As forestends 5557 where is a bit for each lone in a lane to square makes the forestends. In the days one of the country of the c

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YOUR COMMODORE

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c) 1900-01 3. How tall is our Gazza? s) 3. 99*

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Gazes Compo, YC, Arges Boase, Soundary Way, Hanni Hampesoni 2011.

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YORK ELECTRONIC RESEARCH
The Federock, Joseph June 1987 (1997)



REVIEW
Could Duncan Evans
be confluctur? Not
likely, but he has
certain similarities,
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full-back for Livarpoo
He also runs his
beadles over the new
Swift 24-pin printer.

SWIFT AS A NEWT



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If you think that one of our programs looks very interesting, but you can't afford the time to type it in, then our software service will help you out there o'block in the morning. You set at the computer keybased business



Decryone has probably found that purplicat When it does harmen it's a



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At the tag of each article you will find a strap concerning the article type,



This symbol means that the program is available on cassom.

Piessa Note

program, we do not put dak-only program on tape. There is no sense in

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THESAURUS - Build up your own C64 thensures with this program for disk or tage

dok or rape
WINDOW ON A MAZE. Generating masts on your C64
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RDER CODE

SEPTEMBER

BANES AND SQUARES Traceral use membersment fectioning BEASONING ON THE 128 Controlline of expert system DGS 6.1 Enhanced DGS commands for dail users

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OCTOBER 1989

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Can YOU Wen the Lengthe Champannian, The FA Cap and the Lengthe Cap? An Amang range of Realists Postures and Suparb Gampisy combine to crease all the Person Dearns and Dermaneer.

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Riffer W

"Treble Champions is possibly the most complete toolball strategy game to

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NEON ZONE

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oughest which was generately compared to be an in-circulative per arrends, small file of the control of the con

ARCADES
Christmas is coming and that means the start
of the coin-op ava-

Isanche in the shops.
John Cook takes a look
back at the arcade hits
this year and wonders
how the hell you fit a 4
Megabyte extravaganza
into 512, let alone 64Kt







ARCAD





Thursderholt and Cabal







be minimize on all femines the legger, their Debes, Jose Ace Tones and the best with the legger and the legger

entrages into tractor pass and the left bill version should come cut about the same, with the 5-6th soldering the rink, probably supportable and on respon-5-5 to or Tracts any to find the last feet this Cherter, feer what it is worth like, which depied early ones for ever the case that man and conversion oversion. In man analogy their way into the energic. Deriving parties have, again, bean analogs the sevende operations feet water models as the premise drive central and the cost short. The result for most interfacingly solvinged that is por will being Rink priors operage celled Names.

the Mark Dervia: the cost is 200 or 1900 a 1900 a company cities on the Mark Dervia: the cost is 2000 per jump be used, a difference flow Viscy, very line was seen been freezhough be until al traches, such a sit the pallore of beochground coloren up as they proceed invanely was free to small of.

18 of the pallore of beochground coloren up as they proceed invanely was free to make the pallorence of beochground coloren up as they proceed invanely was free to make the pallorence of the pallorenc

It is the gate pit restricted as well was soluted any quelc opposition plot and healing work overgothy dresses about its two mades of difficulty—band and bloody suspensible—they is plot of the title thing, so get the following the control of the



speciel case) bits, along with some exploration from ones in linear to do in the bit. Sopport Monaso Canada Fair.

SMGP is also a rating green — bet with a different front compand on the latest of the control of the latest man is a deposit green. SMGP control bits Mary Fair Basis, the latest man is explored green, SMGP control bits Mary Fair Basis, the latest man is explored green, SMGP special lates Mary Fair Basis (and the latest man is explored green of the special latest properties of the latest man and the latest man and special latest man and the latest man and the latest man and the special latest man and the latest man and the latest man and the special latest man and the latest man and the latest man and the special latest man and the latest man and the latest man and the latest man and the special latest man and the special latest man and the lat

belief or a couple of inger custom chips that was developed selected.
This bead can obviously do print their D. Selder and the inner Wildow
and Dynasty Ware bong those of their — lest the finding is that the best
is put to come.

In the bort emony stakes, the spasse are becoming begrey and begin
as man study as Valessee Pipit and Date Earth factory occuber hand, but

needing now serviced task. By Welf there here been many seminary impacts covered, the what knowleds the features of rank 100 kN.C. Cohol and the limits. Dysanide Dade: The only interpreting then; was that the official following lives Talko, that two julgates Dispersions Handerfoods was could like the Colorador and Talko, that two julgates Dispersions Handerfoods was could like the Colorador Talko, that two julgates Dispersions Handerfoods was could like the Colorador Talko, that two julgates Dispersions Handerfood was to the Colorador Talko, that two julgates Dispersions of the Colorador Talko, that the Colorador Talko, the Colorador Talko, that the Colorador Talko, the Colo



computers. A simple game with an SNRN Probations fall has no most going us, as on many reflower, even that would be difficult to undertake The page of standardigued change. This report of the computers and many pages deviced an experimental pages of the computers and many pages deviced for the computers of the computers and the pages should list specify it from the eye many, in one evolution is a manufacture which hope the question — if their so the enter, which will be a playing to the Christian be more And as when translatural friest reason list is computer to the Christian beam And as the contractural free reason list is considerable.

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FOR CAL AND CIZE USERS

Alright then! You've bought your C64 or C128. Disk Drive and maybe a Printer and Colour Monitor. So what are you going to do

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direction and subscribe to COMMODORE DISK USER.





Mark Everingham is back with the concluding part of his Introduction

Plus/4 Machine Language

90.1 Machine Language Instruction Set in services and the property of the prop

V The Accomplaint "N" The Signifier IP
The BeK Flag "V" The Ossellow Fl
"The Carry Flag "X" The X Brigater
"The Doctoral Flag "Y" the Y Brigater
Interrupt Earble Flag "X"—The Zero Flag

ii - [6] Byte | Be more from [a] to [6] ij - [6] Byte | Ba more from [a] to [a] ij Be a (6-7) in a byte ADC Stoke, V ADC Shik, ADC Shik, ADC Shik, V ADC Shik,

ADC (Add With Corn)

Foretroe. The ADC instruction is said to said two namely hepsthes, using the accumulation. The operated with sets sets of the carry flag (1 or 6) is added to the accumulation and the seeds is the sets accumulation. Any starty accumuia shifted uses the carry flag. If the certal is > 127 the Ne N flag is not if the result is serie, Z is not if the result is \$127 et < -128. The V flag is not. Neurally print:

ias, you should their the curry fing. The example belocitedares the sum of 16 and 40.

Example 6000 LDA = 519 "Lond A with value I CLC "Clear Carry fing for address."

ADC # 530 'Acq vide Blak 'Return to TIDM ND (Perform Logical AND On Accumulator)

Addressing AND AND 5th A Nedo #5th S

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ixty Eloht

FOUR GROUND Function The BEQ introduce pages to the specified address of the last countries to the Z flag because it was equal.

N.Z.C BRK Break is not irro . Bre
N.Z.C BRK Break is not irro . Bre
SI, Shhibb STA 50000 'Soore value 0 in

L Shibbb STA 50000 Store value 0 in screen names y BRK Return to TEDMON on the or on the BH (Tel-Bids lie Money) and Z Octation 171 of M - N. 161 of M - V. Plant Allered

son z. Spinnani (1716 m = 2, 20) et 91 ° 7, ringi den a spin NZVA med M = 2.

o The Addressing Models BIT Sith BIT petablic Function. The BIT not rectine tent the bit of a memory of the Control against the skills in the accommissions Bit 7 of a

result of ANDag A with the memory location is zero, the Z flag is set. Nother the violent is the inconsolitate or in the memory location are changed. The example below looks at the first changers on the across and if it is reversal, replaced in which is specific product.

Example 6000 MT 50C00 Test bits of value on screen
5041 50006 "Hicharcast or revenue, jump
5045 50006 "Hicharcast or revenue, jump
5045 504 February 10 February 10 February
504 5050 Test speec character
504 50500 "Store speec character or

BRK Reizer in TEDMON Resent On Misses) 1980 to Branch of No. Flags Absend No.

Additioning Modes BMI Stebb 805 Fauction The BMI seatments done the setting of the One control that and of e is set, paragra to the specified addition. The N for a set is not accommon where the seton. The N for a set is not extent control and are

con (memo) fing and if it is set, jumps to the specified shell.

The N fing is set by other submiscrose where the readDN byte is - 127 (bit 7 set). At few all other binacles,

obvioushing sideous remain be wellen, -128 or 127 of

committee address. The example before course from 256

254 as right of two on the rectangless.

CLC "Clear carry for addate ADC # \$82 "Add 2 to secondalm BMI 50002 "El rends > 127 jump to \$600. Gaop

(Loop BRX 'Result < 125 return to TED5405 unch H Not Equal To Zero)

Sixty Nine

BNE (Branch H Not Equal To Zero) Operation: Branch I) Znd Engines Altered Not Addressing Modes BNE Shibb

Addressing Mindes - BNE Shibble Function: The BNE instruction does the opposite of the

L (Austronolis Shelt Leit) Spendion C+D 05-0 Flags Abstrad N.; Fricang ASL ASL She ASL She, X ASL Schi ASL Sheb X

Panetono These bey which are both set to I is the

Modes ASI Shib X.

Function All the box subset sites the nonematator or a memory bounds are whitele left. But T is shifted and the casty flag and Bit 6 is replaced with into The N and Z. Bigs see et als for the AND interaction. Shifting a byte left has the effect of the barry of meltiphying it by two The example before calculates SNA.

BRK Steam to TEDMON

BCC Gleach Curry Flag Clean
Operation Bound D C10 Flags Alberted None
Addressing Modes BCC Shibb

Frenchen The BCC centraction examines the states of the

Freedom: The BCC centraction examines the server of the large line; and if it is set in error, pumps to the specified debtas. Note that the solders must be withen 15% or 127 and the solders. This is a socionacially debtad by EDMCON. The solders who will be the solder by EDMCON. The solders who will be the solders and if comp. clear het every, bottom the make on the social through 4000 DM 545. Then A frame address LAS

The ECS does the expected of the BCC restinction. It issue the every flag and if it is set jumps to the specified solderes Agent, this solderes even it weekers [78] and \$7.0 of \$7.0

BEQ (Branch II Equal To Zero) Operator Branch II 27 L I Addressing Modes - DEQ Shill

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■ FOUR GROUND REK (Breek Internet) Operation PC - Stark, SR - Stark, 1 - B

control to be transferred to TEDMON In fact, the

not zero. See the example for BFQ, replacing BFQ with

Percent The BVC restraction uses the mass of the V

"Test best of value as \$D0 BVC \$6000 'Overflow (Bit 6) clear loop

BRE 'Overflow ant - Return to TEDMON CLC (Clear Curry Plan)

CLD (Clear Decimal Mode)

Fencioni The CLD sustruction mean the D flas to man CLI (Clear Interrupt Disable Flag) Kines Alternat

Decration 9-1 CLV (Clear Overflow Flor)

is ricinary whereas a JMP instruction will only work in Example 6000 CLV

Addressing

Operation M-1 - M Flass Altered Addressed DDC Rd X DDC Shink Panesson. The DEC restruction is used to decrease the value

cognition to CNP expect that the comparison takes place

Pasition. The CPX instruction performs an identical operation to CMP except that the comparison takes place CPY (Compare Value Agusta Y)

CPY SWIN

DC * 503 'Add value I to accumulate CMP + SA9 Compare A to value 160 BCC \$6002 "If A < 160 jump to \$6002 CPX (Compare Value Against, X)

Example 6000 LDA # 500

Fanction. The CMP entruction is used to company a value

CMP (Compart Value Against Accomplator)

Addresses CMP

FOUR GROUND ...

Example 6000 DEC SPF19 "Decrement border colour in DEX (Decreeed X)

Enemple 5000 LDX # 0 BNT, \$5002 "Ef accept CPO (accept to \$6000)

BRK Return to Present to TEDMON

Fanction. The DEY encreeting performs as identical action.

(EDR (Perform Endorse Dr Do Accomplant)

Function These bets that are set to one in eather the

INC Shaux INC Shanh INC

Familian. The INC instruction does the connegs of the

Example 6000 INC SFP19 Textrement border colour in

8NE 56400 "Y resolt < >0 yang to \$5000

Operation Xv1 - X Function. The INX custraction performs the same perception

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DNE \$6000 Tr X < >192 jump to \$6000 Har ,X = 185 - steam to LEDMON JMP (June To Location)

Faccione The JMP restriction in said to change present Example 6000 EMP \$5000 Jung second-to-sally to

Example 6000 JSR 5000 'Temp to sub-rosanc at 50004

DOR * SET

Seventy One

Actionary Market | Ma

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et and Z. Dies are six a for the ADD estitutions as the text and the second of the character as the text are sixtees, a reversing if a recommend done the opposition of ADD sixtees are second of the character and the samp tight Res is through it as given to provide the character and the samp tight Res is through it as given to be considered in the character and the samp tight Res is through it as the samp tight Res is through the character as the samp tight Res is through the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tight Res is through the character as the samp tigh

STA 50C00 Return layer to access
ERK Return to TEDNON by two

Seventy Two

FOUR GROUND Shift book bets in SDI Example 6000 PLA "Pull hote off stack reto accommodator TAX (Trensfer Accountains to T)

Operator A - Y

Addressing Medo: Implied

to be set before subtraction. See SBC for an enumble of

TXA (Transfer X To Assumption)

Example 6000 TXA 'Transfer value in X to accomulator Example 6000 SED TSX (Taxasle: X To Stack Poissor)

TYA (Transfer Y To Accompletor)

7501 Addressins Medes

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EFOUR GROUND

specified in a command like TAA or PHA, the location Immediate Mode I + Subil In unmodure mode you

Zero Page Mode (Sth.) Zero page mode is identical.

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Seventy Five



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ter developed more.

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So why not help all those C16 and Plant's owners and compile a

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Ran Cale, 33 Rasseltert Hense, Boselpeny Street, London SEL6 SNL

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R. Rebesson, H2 Chiff Road, Blomana, North Blombernde, HU II LIE Danks for your leave it is not to see that someone is extually doing something control for a blome of the order.

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pin deted J. Pradicy, Lapertohice, Southead

Thank you for your comments regarding the review. I have tried your suggestion egarding the scrolling and it does appear to work just fine. Thanks for the ips. boffin Stuert Cooke.

All your C128 problems

Cry for help

If you can noise that noblem it would make life causer for me as at the

I would also like to know if it is northly to change the Character colour

Corner is a great idea, its energyaged are to write to yea, and I have you are able to keep if going-

After made experimening in the office I'm afraid that we've come up with

Video Memory Expension

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Commodition of the configuration pour spot nating the inflation.
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